

ABSTRACT

~~The invention relates to an~~ An assembly ~~comprising including~~ two symmetrically-disposed expandable threaded tubular joints, ~~each of said~~ The joints ~~consisting of:~~ (i) including a male tubular element (EM1, EM2) ~~which is placed~~ at one end of a tube (T1, T2) and ~~which is~~ equipped with [(a)] a male thread [(FM)], [(b)] a first annular lip [(L1)] having a first axially abutting surface (SB1), a first inner surface (SI1) and a first outer surface (SE1), and [(c)] a second abutting surface (SB2); and [(ii)] a female tubular element (EF1, EF2) ~~which is~~ equipped with [(a)] a female thread [(FF)], [(b)] a second annular lip [(L2)] having a third abutting surface (SB3), a second outer surface (SE2) and a second inner surface (SI2), and [(c)] a third inner surface (SI3) and a fourth axially abutting surface (SB4) which, together with the second outer surface (SE2), defines an annular housing [(LO)] homologous to the corresponding first lip [(L1)]. ~~According to the invention, the~~ The two female tubular elements (EF1, EF2) form two opposing ends of a female/female-type sleeve (M), said ends being separated by a central part (PCM) which ~~initially comprises an annular zone~~ [(G2)] having an initial thinned thickness that is selected such that the thickness of the sleeve [(M)] at the aforementioned zone [(G2)] is greater than or equal to the product of the section of a running part of the tubes, at the ends of which the male tubular elements are formed, owing to the effectiveness of the joint. Moreover, the male and female tubular elements are arranged such that every second abutting surface (SB2) rests against the corresponding third abutting surface (SB3) after screwing and prior to diametral expansion in the plastic deformation region with the aid of an axially movable expansion tool.